

1 CLAIMS

2 What is claimed is:

- 3 1. A method for quantitatively evaluating the integrity of a data set recorded on a storage
4 medium, the recorded data set including error-correction codes, the method:
5 comprising at least two of the steps of
6 enumerating data subsets that are unreadable,
7 enumerating data subsets that are erroneously read and uncorrected, and
8 enumerating data subsets that are initially erroneously read and subsequently corrected;
9 and
10 further comprising the step of computing a data integrity rating for the data set using at least
11 one of enumerations of the unreadable data subsets, the erroneously-read-and-
12 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.
- 13 2. The method of Claim 1, wherein the storage medium comprises a CD.
- 14 3. The method of Claim 1, wherein the storage medium comprises a DVD.
- 15 4. A method for quantitatively evaluating the integrity of a data set recorded on a storage
16 medium, the recorded data set including error-correction codes, the method comprising the
17 steps of:
18 enumerating data subsets that are initially erroneously read and subsequently corrected; and
19 computing a data integrity rating for the data set using enumeration of the erroneously-read-
20 and-corrected data subsets.
- 21 5. The method of Claim 4, wherein the storage medium comprises a CD.
- 22 6. The method of Claim 4, wherein the storage medium comprises a DVD.
- 23 7. The method of Claim 4, further comprising the steps of:
24 enumerating data subsets that are unreadable;
25 enumerating data subsets that are erroneously read and uncorrected; and
26 computing a data integrity rating for the data set using at least one of enumerations of the
27 unreadable data subsets, the erroneously-read-and-uncorrected data subsets, and the
28 erroneously-read-and-corrected data subsets.
- 29 8. The method of Claim 7, further comprising the steps of:
30 identifying and logging data subsets within the data set that are unreadable, thereby
31 enumerating the unreadable data subsets;

- 1 identifying and logging data subsets within the data set that are erroneously read and
2 uncorrected, thereby enumerating the erroneously-read-and-uncorrected data subsets;
3 and
4 identifying and logging data subsets within the data set that are initially erroneously read
5 and subsequently corrected, thereby enumerating the erroneously-read-and-corrected
6 data subsets.
- 7 9. A method for quantitatively evaluating the integrity of a data set recorded on a storage
8 medium, the recorded data set including error-correction codes, the method comprising the
9 steps of:
10 enumerating data subsets that are initially erroneously read and subsequently corrected, and
11 measuring an over-sampled rating for the erroneously-read-and-corrected subsets; and
12 computing a data integrity rating for the data set using at least one of enumeration of
13 erroneously-read-and-corrected data subsets and the over-sampled rating.
14 10. The method of Claim 9, wherein the storage medium comprises a CD.
15 11. The method of Claim 9, wherein the storage medium comprises a DVD.
16 12. The method of Claim 9, wherein the over-sampled rating is determined by performing the
17 steps of:
18 computing a time interval for reading the data subset at a pre-determined readout rate;
19 measuring a time interval required for reading the data subset at the pre-determined readout
20 rate; and
21 computing the over-sampled rating using the measured time interval and the computed time
22 interval.
23 13. The method of Claim 9, wherein the over-sampled rating is determined by performing the
24 steps of:
25 identifying and logging data subsets within the data set that are initially erroneously read
26 and subsequently corrected, thereby enumerating the erroneously-read-and-corrected
27 data subsets;
28 logging the number of re-reads required to correct erroneously-read-and-corrected data
29 subsets; and
30 computing the over-sampled rating using the numbers of re-reads.
31 14. The method of Claim 9, wherein:

1 the over-sampled rating is determined by performing the steps of
2 identifying and logging data subsets within the data set that are initially erroneously
3 read and subsequently corrected, thereby enumerating the erroneously-read-and-
4 corrected data subsets,
5 logging the number of re-reads required to correct erroneously-read-and-corrected data
6 subsets, and
7 computing the over-sampled rating using the numbers of re-reads;
8 identifying and logging data subsets within the data set that are unreadable, thereby
9 enumerating the unreadable data subsets;
10 identifying and logging data subsets within the data set that are erroneously read and
11 uncorrected, thereby enumerating the erroneously-read-and-uncorrected data subsets;
12 and
13 computing a data integrity rating for the data set using at least one of enumerations of the
14 unreadable data subsets, the erroneously-read-and-uncorrected subsets, and the
15 erroneously-read-and-corrected data subsets, and the over-sampled rating.

- 16 15. An apparatus for quantitatively evaluating the integrity of a data set recorded on a storage
17 medium, the recorded data set including error-correction codes, the apparatus comprising:
18 a readout device adapted for reading the data set recorded on the storage medium; and
19 a programmed processor operatively coupled to the readout device, the processor being
20 programmed for performing at least two of the steps of
21 enumerating data subsets that are unreadable,
22 enumerating data subsets that are erroneously read and uncorrected, and
23 enumerating data subsets that are initially erroneously read and subsequently corrected;
24 and
25 wherein the processor is further programmed for computing a data integrity rating for the
26 data set using at least one of enumerations of the unreadable data subsets, the
27 erroneously-read-and-uncorrected data subsets, and the erroneously-read-and-corrected
28 data subsets.
- 29 16. The apparatus of Claim 15, wherein the storage medium comprises a CD.
30 17. The apparatus of Claim 15, wherein the storage medium comprises a DVD.

- 1 18. An apparatus for quantitatively evaluating the integrity of a data set recorded on a storage
2 medium, the recorded data set including error-correction codes, the apparatus comprising:
3 a readout device adapted for reading the data set recorded on the storage medium; and
4 a programmed processor operatively coupled to the readout device, the processor being
5 programmed for
6 enumerating data subsets that are initially erroneously read and subsequently corrected;
7 and
8 computing a data integrity rating for the data set using enumeration of the erroneously-
9 read-and-corrected data subsets.
- 10 19. The apparatus of Claim 18, wherein the storage medium comprises a CD.
- 11 20. The apparatus of Claim 18, wherein the storage medium comprises a DVD.
- 12 21. The apparatus of Claim 18, wherein the processor is further programmed for:
13 enumerating data subsets that are unreadable;
14 enumerating data subsets that are erroneously read and uncorrected; and
15 computing a data integrity rating for the data set using at least one of enumerations of the
16 unreadable data subsets, the erroneously-read-and-uncorrected data subsets, and the
17 erroneously-read-and-corrected data subsets.
- 18 22. The apparatus of Claim 21, wherein the processor is further programmed for:
19 identifying and logging data subsets within the data set that are unreadable, thereby
20 enumerating the unreadable data subsets;
21 identifying and logging data subsets within the data set that are erroneously read and
22 uncorrected, thereby enumerating the erroneously-read-and-uncorrected data subsets;
23 and
24 identifying and logging data subsets within the data set that are initially erroneously read
25 and subsequently corrected, thereby enumerating the erroneously-read-and-corrected
26 data subsets.
- 27 23. An apparatus for quantitatively evaluating the integrity of a data set recorded on a storage
28 medium, the recorded data set including error-correction codes, the apparatus comprising:
29 a readout device adapted for reading the data set recorded on the storage medium; and
30 a programmed processor operatively coupled to the readout device, the processor being
31 programmed for

1 enumerating data subsets that are initially erroneously read and subsequently corrected,
2 and
3 measuring an over-sampled rating for the erroneously-read-and-corrected subsets; and
4 computing a data integrity rating for the data set using at least one of enumeration of
5 erroneously-read-and-corrected data subsets and the over-sampled rating.

- 6 24. The apparatus of Claim 23, wherein the storage medium comprises a CD.
7 25. The apparatus of Claim 23, wherein the storage medium comprises a DVD.
8 26. The apparatus of Claim 23, wherein processor is programmed for determining the over-
9 sampled rating by:
10 computing a time interval for reading the data subset at a pre-determined readout rate;
11 measuring a time interval required for reading the data subset at the pre-determined readout
12 rate; and
13 computing the over-sampled rating using the measured time interval and the computed time
14 interval.
15 27. The apparatus of Claim 23, wherein the processor is programmed for determining the over-
16 sampled rating by:
17 identifying and logging data subsets within the data set that are initially erroneously read
18 and subsequently corrected, thereby enumerating the erroneously-read-and-corrected
19 data subsets;
20 logging the number of re-reads required to correct erroneously-read-and-corrected data
21 subsets; and
22 computing the over-sampled rating using the numbers of re-reads.
23 28. The apparatus of Claim 23, wherein the processor is further programmed for:
24 determining the over-sampled rating by
25 identifying and logging data subsets within the data set that are initially erroneously
26 read and subsequently corrected, thereby enumerating the erroneously-read-and-
27 corrected data subsets,
28 logging the number of re-reads required to correct erroneously-read-and-corrected data
29 subsets, and
30 computing the over-sampled rating using the numbers of re-reads;

- 1 identifying and logging data subsets within the data set that are unreadable, thereby
2 enumerating the unreadable data subsets;
- 3 identifying and logging data subsets within the data set that are erroneously read and
4 uncorrected, thereby enumerating the erroneously-read-and-uncorrected data subsets;
- 5 and
- 6 computing a data integrity rating for the data set using at least one of enumerations of the
7 unreadable data subsets, the erroneously-read-and-uncorrected subsets, and the
8 erroneously-read-and-corrected data subsets, and the over-sampled rating.
- 9 29. A method for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned
10 recorded data products by a data product re-seller, the method comprising the steps of:
11 reading data from a data product offered by an owner of the data product;
12 comparing data read from the data product with data in a data product information database;
13 identifying the data product, if the data product is identified as being listed in the data
14 product information database;
15 quantitatively evaluating the integrity of a data set recorded on the data product and
16 computing a data integrity rating for the data product;
17 determining a purchase price for the data product to be offered by the re-seller to the owner
18 of the data product, the purchase price being determined based on at least one of the
19 data integrity rating for the data product, inventory information for the data product
20 from a data product inventory database, order information for the data product in a data
21 product order database, and previous purchase and re-sale information for the data
22 product from a data product sales database;
23 updating inventory information in response to a purchase of the data product from the owner
24 by the re-seller;
25 determining a re-sale price for the data product to be offered by the re-seller to a buyer of
26 the data product, the purchase price being determined based on at least one of the data
27 integrity rating, inventory information, order information, and previous purchase and re-
28 sale information; and
29 updating at least one of inventory information, order information, and sales information in
30 response to a re-sale of the data product by the re-seller to the buyer.
31 30. The method of Claim 29, wherein the data product comprises a CD.

- 1 31. The method of Claim 29, wherein the data product comprises a DVD.
- 2 32. The method of Claim 29, wherein the evaluating step:
 - 3 comprises at least two of the steps of
 - 4 enumerating data subsets that are unreadable,
 - 5 enumerating data subsets that are erroneously read and uncorrected, and
 - 6 enumerating data subsets that are initially erroneously read and subsequently corrected;
 - 7 and
 - 8 further comprises the step of computing a data integrity rating for the data set using at least
 - 9 one of enumerations of the unreadable data subsets, the erroneously-read-and-
 - 10 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.
- 11 33. The method of Claim 29, wherein the data product includes error correction codes, and the
12 evaluating step comprises the steps of:
13 enumerating data subsets that are initially erroneously read and subsequently corrected; and
14 computing a data integrity rating for the data set using enumeration of erroneously-read-
15 and-corrected data subsets.
- 16 34. The method of Claim 29, wherein the data product includes error correction codes, and the
17 evaluating step comprises the steps of:
18 enumerating data subsets that are initially erroneously read and subsequently corrected, and
19 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
20 computing a data integrity rating for the data set using at least one of enumeration of the
21 erroneously-read-and-correct data subsets and the over-sampled rating.
- 22 35. The method of Claim 29, further comprising the step of prompting a user to enter data
23 product information for the data product into the data product information database, if the
24 data product is not identified as being listed in the product information database.
- 25 36. The method of Claim 29, wherein:
26 the data product is a music CD and the data product databases are music CD databases, and
27 the method further comprises at least one of the steps of
28 reading and storing in the music CD information database any of track information,
29 title, and artist from the CD that is not already stored in the music CD database,

1 prompting a user to scan cover art of the music CD and storing cover art thus scanned
2 into the music CD information database, if the cover art is not already present in
3 the music CD database,
4 prompting a user to scan lyrics of the music CD and storing lyrics thus scanned into the
5 music CD information database, if the lyrics are not already present in the music
6 CD database, and
7 prompting a user to scan liner notes of the music CD and storing liner notes thus
8 scanned into the music CD information database, if the liner notes are not already
9 present in the music CD database.

10 37. The method of Claim 29, wherein:

11 the data product is a music CD, and data product information database is a music CD
12 information database; and
13 the method further comprises the steps of analyzing music data recorded on tracks of the
14 music CD to generate unique track identification data therefor and storing the track
15 identification information in the music CD information database, if the track
16 identification information is not already present in the music CD information database.

17 38. The method of Claim 29, further comprising the step of enabling the buyer independently to
18 quantitatively evaluate the integrity of the data set recorded on a re-sold data product and to
19 compute the data integrity rating for the re-sold data product, thereby enabling the buyer to
20 verify the data integrity rating of the re-sold data product and compare it to re-seller-
21 reported data integrity rating.

22 39. A method for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned
23 recorded data products by a data product re-seller, the method comprising the steps of:
24 reading data from a data product offered by an owner of the data product;
25 comparing data read from the data product with data in a data product information database;
26 identifying the data product, if the data product is identified as being listed in the data
27 product information database;
28 quantitatively evaluating the integrity of a data set recorded on the data product and
29 computing a data integrity rating for the data product;
30 determining a purchase price for the data product to be offered by the re-seller to the owner
31 of the data product, the purchase price being determined based on at least one of the

1 data integrity rating for the data product, inventory information for the data product
2 from a data product inventory database, order information for the data product in a data
3 product order database, and previous purchase and re-sale information for the data
4 product from a data product sales database;
5 updating inventory information in response to a purchase of the data product from the owner
6 by the re-seller;
7 determining a re-sale price for the data product to be offered by the re-seller to a buyer of
8 the data product, the purchase price being determined based on at least one of the data
9 integrity rating, inventory information, order information, and previous purchase and re-
10 sale information; and
11 updating at least one of inventory information, order information, and sales information in
12 response to a re-sale of the data product by the re-seller to the buyer,
13 wherein:
14 the databases receive information from multiple independent data product re-sellers;
15 the multiple independent product re-sellers may access the databases; and
16 a data product purchased by a first one of the multiple re-sellers may be made available for
17 re-sale to a buyer by a second one of the multiple re-sellers.

- 18 40. The method of Claim 39, wherein the evaluating step:
19 comprises at least two of the steps of
20 enumerating data subsets that are unreadable,
21 enumerating data subsets that are erroneously read and uncorrected, and
22 enumerating data subsets that are initially erroneously read and subsequently corrected;
23 and
24 further comprises the step of computing a data integrity rating for the data set using at least
25 one of enumerations of the unreadable data subsets, the erroneously-read-and-
26 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.
27 41. The method of Claim 39, wherein the data product includes error correction codes, and the
28 evaluating step comprises the steps of:
29 enumerating data subsets that are initially erroneously read and subsequently corrected; and
30 computing a data integrity rating for the data set using enumeration of erroneously-read-
31 and-corrected data subsets.

- 1 42. The method of Claim 39, wherein the data product includes error correction codes, and the
2 evaluating step comprises the steps of:
3 enumerating data subsets that are initially erroneously read and subsequently corrected, and
4 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
5 computing a data integrity rating for the data set using at least one of enumeration of the
6 erroneously-read-and-correct data subsets and the over-sampled rating.
- 7 43. The method of Claim 39, wherein the data product comprises a CD.
- 8 44. The method of Claim 39, wherein the data product comprises a DVD.
- 9 45. The method of Claim 39, wherein the databases are accessible online to the multiple re-
10 sellers.
- 11 46. The method of Claim 39, wherein the identity of the first one of the re-sellers may be
12 concealed from the buyer.
- 13 47. The method of Claim 39, wherein one of the multiple re-sellers may select which others of
14 the multiple re-sellers may offer for re-sale to buyers data products purchased by the one of
15 the multiple retailers.
- 16 48. The method of Claim 39, wherein one of the multiple re-sellers may select from which
17 others of the multiple re-sellers to offer for re-sale to buyers data products purchased by the
18 others of the multiple retailers.
- 19 49. The method of Claim 39, wherein a data product purchased by the first one of the multiple
20 re-sellers and re-sold to a buyer by the second one of the multiple re-sellers may be shipped
21 from the first one of the re-sellers to the second one of the re-sellers for subsequent delivery
22 to the buyer.
- 23 50. The method of Claim 39, wherein a data product purchased by a first one of the multiple re-
24 sellers and re-sold to a buyer by a second one of the multiple re-sellers may be shipped from
25 the first one of the re-sellers directly to the buyer.
- 26 51. The method of Claim 39, wherein:
27 a buyer may submit to a re-seller a bid for a requested data product, the bid including at least
28 one of a desired re-sale price and a desired data integrity rating; and
29 the bid thus submitted may be entered into the data product order database.
- 30 52. A method for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned
31 recorded data products by a data product re-seller, the method comprising the steps of:

1 reading data from a data product offered by an owner of the data product;
2 comparing data read from the data product with data in a data product information database;
3 identifying the data product, if the data product is identified as being listed in the data
4 product information database;
5 quantitatively evaluating the integrity of a data set recorded on the data product and
6 computing a data integrity rating for the data product;
7 determining a purchase price for the data product to be offered by the re-seller to the owner
8 of the data product, the purchase price being determined based on at least one of the
9 data integrity rating for the data product, inventory information for the data product
10 from a data product inventory database, order information for the data product in a data
product order database, and previous purchase and re-sale information for the data
11 product from a data product sales database;
12 updating inventory information in response to a purchase of the data product from the owner
13 by the re-seller;
14 updating inventory information in response to a purchase of the data product from the owner
15 by the re-seller;
16 updating at least one of inventory information, order information, and sales information in
17 response to a re-sale of the data product by the re-seller to the buyer,
18 wherein:
19 the databases receive information from multiple independent data product re-sellers;
20 the multiple independent product re-sellers may access the databases;
21 a data product purchased by a first one of the multiple re-sellers may be made available for
22 re-sale to a buyer by a second one of the multiple re-sellers;
23 the multiple re-sellers may deliver purchased data products to a pre-owned data product
24 distributor;
25 the distributor may access and update at least one of inventory information, order
26 information, and sales information; and
27 a data product re-sold to a buyer by a re-seller may be delivered from the distributor.
28 53. The method of Claim 52, wherein the evaluating step:
29 comprises at least two of the steps of
30 enumerating data subsets that are unreadable,

1 enumerating data subsets that are erroneously read and uncorrected, and
2 enumerating data subsets that are initially erroneously read and subsequently corrected;
3 and

4 further comprises the step of computing a data integrity rating for the data set using at least
5 one of enumerations of the unreadable data subsets, the erroneously-read-and-
6 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

7 54. The method of Claim 52, wherein the data product includes error correction codes, and the
8 evaluating step comprises the steps of:
9 enumerating data subsets that are initially erroneously read and subsequently corrected; and
10 computing a data integrity rating for the data set using enumeration of erroneously-read-
11 and-corrected data subsets.

12 55. The method of Claim 52, wherein the data product includes error correction codes, and the
13 evaluating step comprises the steps of:
14 enumerating data subsets that are initially erroneously read and subsequently corrected, and
15 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
16 computing a data integrity rating for the data set using at least one of enumeration of the
17 erroneously-read-and-correct data subsets and the over-sampled rating.

18 56. The method of Claim 52, wherein the data product comprises a CD.
19 57. The method of Claim 52, wherein the data product comprises a DVD.
20 58. The method of Claim 52, wherein the databases are accessible online to the multiple re-
21 sellers and the distributor.

22 59. The method of Claim 52, wherein the distributor may request delivery of selected data
23 products from the multiple re-sellers, the data products being selected based on at least one
24 of inventory information, order information, and sales information.

25 60. A system for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned
26 recorded data products by a data product re-seller, the system:
27 comprises at least one of
28 a data product information database containing data product information,
29 a data product inventory data base containing inventory information,
30 a data product order database containing order information, and
31 a data product sales database containing sales information;

1 and further comprises
2 a readout device adapted for reading a data set recorded on the data product, and
3 a programmed processor operatively linked to the databases and the readout device,
4 wherein the processor is programmed for:
5 reading data from a data product offered by an owner of the data product;
6 comparing data read from the data product with data in the data product information
7 database;
8 identifying the data product, if the data product is identified as being listed in the data
9 product information database;
10 quantitatively evaluating the integrity of the data set recorded on the data product and
11 computing a data integrity rating for the data product;
12 determining a purchase price for the data product to be offered by the re-seller to the owner
13 of the data product, the purchase price being determined based on at least one of the
14 data integrity rating for the data product, inventory information, order information, and
15 previous purchase and re-sale information;
16 updating inventory information in response to a purchase of the data product from the owner
17 by the re-seller;
18 determining a re-sale price for the data product to be offered by the re-seller to a buyer of
19 the data product, the purchase price being determined based on at least one of the data
20 integrity rating, inventory information, order information, and previous purchase and re-
21 sale information; and
22 updating at least one of inventory information, order information, and sales information in
23 response to a re-sale of the data product by the re-seller to the buyer.
24 61. The system of Claim 60, wherein the data product comprises a CD.
25 62. The system of Claim 60, wherein the data product comprises a DVD.
26 63. The system of Claim 60, wherein the evaluating step:
27 comprises at least two of the steps of
28 enumerating data subsets that are unreadable,
29 enumerating data subsets that are erroneously read and uncorrected, and
30 enumerating data subsets that are initially erroneously read and subsequently corrected;
31 and

1 further comprises the step of computing a data integrity rating for the data set using at least
2 one of enumerations of the unreadable data subsets, the erroneously-read-and-
3 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

- 4 64. The system of Claim 60, wherein the data product includes error correction codes, and the
5 evaluating step comprises the steps of:
6 enumerating data subsets that are initially erroneously read and subsequently corrected; and
7 computing a data integrity rating for the data set using enumeration of erroneously-read-
8 and-corrected data subsets.
9 65. The system of Claim 60, wherein the data product includes error correction codes, and the
10 evaluating step comprises the steps of:
11 enumerating data subsets that are initially erroneously read and subsequently corrected, and
12 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
13 computing a data integrity rating for the data set using at least one of enumeration of the
14 erroneously-read-and-correct data subsets and the over-sampled rating.
15 66. The system of Claim 60, wherein the processor is further programmed for prompting a user
16 to enter data product information for the data product into the data product information
17 database, if the data product is not identified as being listed in the product information
18 database.
19 67. The system of Claim 60, wherein:
20 the data product is a music CD and the data product databases are music CD databases, and
21 the processor is further programmed for
22 reading and storing in the music CD information database any of track information,
23 title, and artist from the CD that is not already stored in the music CD database,
24 prompting a user to scan cover art of the music CD and storing cover art thus scanned
25 into the music CD information database, if the cover art is not already present in
26 the music CD database,
27 prompting a user to scan lyrics of the music CD and storing lyrics thus scanned into the
28 music CD information database, if the lyrics are not already present in the music
29 CD database, and

prompting a user to scan liner notes of the music CD and storing liner notes thus scanned into the music CD information database, if the liner notes are not already present in the music CD database.

- 4 68. The system of Claim 60, wherein:

5 the data product is a music CD, and data product information database is a music CD

6 information database; and

7 the processor is further programmed for analyzing music data recorded on tracks of the

8 music CD to generate unique track identification data therefor and storing the track

9 identification information in the music CD information database, if the track

10 identification information is not already present in the music CD information database.

11 69. The system of Claim 60, wherein the processor is further programmed for enabling the

12 buyer independently to quantitatively evaluate the integrity of the data set recorded on a re-

13 sold data product and to compute the data integrity rating for the re-sold data product,

14 thereby enabling the buyer to verify the data integrity rating of the re-sold data product and

15 compare it to re-seller-reported data integrity rating.

16 70. A system for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned

17 recorded data products by a data product re-seller, the system:

18 comprises at least one of

19 a data product information database containing data product information,

20 a data product inventory data base containing inventory information,

21 a data product order database containing order information, and

22 a data product sales database containing sales information;

23 and further comprises

24 a readout device adapted for reading a data set recorded on the data product, and

25 a programmed processor operatively linked to the databases and the readout device,

26 wherein the processor is programmed for:

27 reading data from a data product offered by an owner of the data product;

28 comparing data read from the data product with data in the data product information

29 database;

30 identifying the data product, if the data product is identified as being listed in the data

31 product information database;

1 quantitatively evaluating the integrity of the data set recorded on the data product and
2 computing a data integrity rating for the data product;
3 determining a purchase price for the data product to be offered by the re-seller to the owner
4 of the data product, the purchase price being determined based on at least one of the
5 data integrity rating for the data product, inventory information, order information, and
6 previous purchase and re-sale information;
7 updating inventory information in response to a purchase of the data product from the owner
8 by the re-seller;
9 determining a re-sale price for the data product to be offered by the re-seller to a buyer of
10 the data product, the purchase price being determined based on at least one of the data
11 integrity rating, inventory information, order information, and previous purchase and re-
12 sale information;
13 updating at least one of inventory information, order information, and sales information in
14 response to a re-sale of the data product by the re-seller to the buyer;
15 enabling the databases to receive information from multiple independent data product re-
16 sellers;
17 enabling the multiple independent product re-sellers to access the databases; and
18 enabling a data product purchased by a first one of the multiple re-sellers to be made
19 available for re-sale to a buyer by a second one of the multiple re-sellers.

- 20 71. The system of Claim 70, wherein the evaluating step:
21 comprises at least two of the steps of
22 enumerating data subsets that are unreadable,
23 enumerating data subsets that are erroneously read and uncorrected, and
24 enumerating data subsets that are initially erroneously read and subsequently corrected;
25 and
26 further comprises the step of computing a data integrity rating for the data set using at least
27 one of enumerations of the unreadable data subsets, the erroneously-read-and-
28 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.
- 29 72. The system of Claim 70, wherein the data product includes error correction codes, and the
30 evaluating step comprises the steps of:
31 enumerating data subsets that are initially erroneously read and subsequently corrected; and

- 1 computing a data integrity rating for the data set using enumeration of erroneously-read-
2 and-corrected data subsets.
- 3 73. The system of Claim 70, wherein the data product includes error correction codes, and the
4 evaluating step comprises the steps of:
5 enumerating data subsets that are initially erroneously read and subsequently corrected, and
6 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
7 computing a data integrity rating for the data set using at least one of enumeration of the
8 erroneously-read-and-correct data subsets and the over-sampled rating.
- 9 74. The system of Claim 70, wherein the data product comprises a CD.
- 10 75. The system of Claim 70, wherein the data product comprises a DVD.
- 11 76. The system of Claim 70, wherein the databases are accessible online to the multiple re-
12 sellers.
- 13 77. The system of Claim 70, wherein the processor is further programmed for enabling
14 concealment of the identity of the first one of the re-sellers from the buyer.
- 15 78. The system of Claim 70, wherein the processor is further programmed for enabling one of
16 the multiple re-sellers to select which others of the multiple re-sellers may offer for re-sale
17 to buyers data products purchased by the one of the multiple retailers.
- 18 79. The system of Claim 70, wherein the processor is further programmed for enabling one of
19 the multiple re-sellers to select from which others of the multiple re-sellers to offer for re-
20 sale to buyers data products purchased by the others of the multiple retailers.
- 21 80. The system of Claim 70, wherein the processor is further programmed for enabling a data
22 product purchased by the first one of the multiple re-sellers and re-sold to a buyer by the
23 second one of the multiple re-sellers to be shipped from the first one of the re-sellers to the
24 second one of the re-sellers for subsequent delivery to the buyer.
- 25 81. The system of Claim 70, wherein the processor is further programmed for enabling a data
26 product purchased by a first one of the multiple re-sellers and re-sold to a buyer by a second
27 one of the multiple re-sellers to be shipped from the first one of the re-sellers directly to the
28 buyer.
- 29 82. The system of Claim 70, wherein the processor is further programmed for enabling:
30 a buyer to submit to a re-seller a bid for a requested data product, the bid including at least
31 one of a desired re-sale price and a desired data integrity rating; and

1 the bid thus submitted to be entered into the data product sales database.

2 83. A system for acquisition, evaluation, inventory, distribution, and re-sale of pre-owned

3 recorded data products by a data product re-seller, the system:

4 comprises at least one of

5 a data product information database containing data product information,

6 a data product inventory data base containing inventory information,

7 a data product order database containing order information, and

8 a data product sales database containing sales information;

9 and further comprises

10 a readout device adapted for reading a data set recorded on the data product, and

11 a programmed processor operatively linked to the databases and the readout device,

12 wherein the processor is programmed for:

13 reading data from a data product offered by an owner of the data product;

14 comparing data read from the data product with data in the data product information

15 database;

16 identifying the data product, if the data product is identified as being listed in the data
17 product information database;

18 quantitatively evaluating the integrity of the data set recorded on the data product and
19 computing a data integrity rating for the data product;

20 determining a purchase price for the data product to be offered by the re-seller to the owner
21 of the data product, the purchase price being determined based on at least one of the
22 data integrity rating for the data product, inventory information, order information, and
23 previous purchase and re-sale information;

24 updating inventory information in response to a purchase of the data product from the owner
25 by the re-seller;

26 determining a re-sale price for the data product to be offered by the re-seller to a buyer of
27 the data product, the purchase price being determined based on at least one of the data
28 integrity rating, inventory information, order information, and previous purchase and re-
29 sale information;

30 updating at least one of inventory information, order information, and sales information in
31 response to a re-sale of the data product by the re-seller to the buyer;

1 enabling the databases to receive information from multiple independent data product re-
2 sellers;
3 enabling the multiple independent product re-sellers to access the databases;
4 enabling a data product purchased by a first one of the multiple re-sellers to be made
5 available for re-sale to a buyer by a second one of the multiple re-sellers;
6 enabling the multiple re-sellers to deliver purchased data products to a pre-owned data
7 product distributor;
8 enabling the distributor to access and update at least one of inventory information, order
9 information, and sales information; and
10 enabling a data product re-sold to a buyer by a re-seller to be delivered from the distributor.

11 84. The system of Claim 83, wherein the evaluating step:

12 comprises at least two of the steps of
13 enumerating data subsets that are unreadable,
14 enumerating data subsets that are erroneously read and uncorrected, and
15 enumerating data subsets that are initially erroneously read and subsequently corrected;
16 and
17 further comprises the step of computing a data integrity rating for the data set using at least
18 one of enumerations of the unreadable data subsets, the erroneously-read-and-
19 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

20 85. The system of Claim 83, wherein the data product includes error correction codes, and the
21 evaluating step comprises the steps of:
22 enumerating data subsets that are initially erroneously read and subsequently corrected; and
23 computing a data integrity rating for the data set using enumeration of erroneously-read-
24 and-corrected data subsets.

25 86. The system of Claim 83, wherein the data product includes error correction codes, and the
26 evaluating step comprises the steps of:
27 enumerating data subsets that are initially erroneously read and subsequently corrected, and
28 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
29 computing a data integrity rating for the data set using at least one of enumeration of the
30 erroneously-read-and-correct data subsets and the over-sampled rating.

31 87. The system of Claim 83, wherein the data product comprises a CD.

- 1 88. The system of Claim 83, wherein the data product comprises a DVD.
- 2 89. The system of Claim 83, wherein the databases are accessible online to the multiple re-
- 3 sellers.
- 4 90. The system of Claim 83, wherein the processor is further programmed for enabling the
- 5 distributor to request delivery of selected data products from the multiple re-sellers, the data
- 6 products being selected based on at least one of inventory information, order information,
- 7 and sales information.
- 8 91. A method for evaluation and sale of a pre-owned recorded data product by an owner of the
- 9 data product to a buyer, the method comprising the steps of:
- 10 reading data from a data product offered for sale by an owner of the data product;
- 11 comparing data read from the data product with data in a data product information database;
- 12 identifying the data product, if the data product is identified as being listed in the data
- 13 product information database;
- 14 quantitatively evaluating the integrity of a data set recorded on the data product and
- 15 computing a data integrity rating for the data product;
- 16 determining a sale price for the data product to be offered by the owner to the buyer, the
- 17 purchase price being determined based on at least one of the data integrity rating for the
- 18 data product, inventory information for the data product from a data product inventory
- 19 database, order information for the data product in a data product order database, and
- 20 previous purchase and re-sale information for the data product from a data product sales
- 21 database;
- 22 updating inventory information in response to an offer to sell the data product by the owner;
- 23 and
- 24 updating at least one of inventory information, order information, and sales information in
- 25 response to sale of the data product by the owner to the buyer.
- 26 92. The method of Claim 91, wherein the data product comprises a CD.
- 27 93. The method of Claim 91, wherein the data product comprises a DVD.
- 28 94. The method of Claim 91, wherein the evaluating step:
- 29 comprises at least two of the steps of
- 30 enumerating data subsets that are unreadable,
- 31 enumerating data subsets that are erroneously read and uncorrected, and

1 enumerating data subsets that are initially erroneously read and subsequently corrected;

2 and

3 further comprises the step of computing a data integrity rating for the data set using at least
4 one of enumerations of the unreadable data subsets, the erroneously-read-and-
5 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

6 95. The method of Claim 91, wherein the data product includes error correction codes, and the
7 evaluating step comprises the steps of:

8 enumerating data subsets that are initially erroneously read and subsequently corrected; and
9 computing a data integrity rating for the data set using enumeration of erroneously-read-
10 and-corrected data subsets.

11 96. The method of Claim 91, wherein the data product includes error correction codes, and the
12 evaluating step comprises the steps of:

13 enumerating data subsets that are initially erroneously read and subsequently corrected, and
14 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
15 computing a data integrity rating for the data set using at least one of enumeration of the
16 erroneously-read-and-correct data subsets and the over-sampled rating.

17 97. The method of Claim 91, further comprising the step of prompting the owner to enter data
18 product information for the data product into the data product information database, if the
19 data product is not identified as being listed in the product information database.

20 98. The method of Claim 91, wherein:

21 the data product is a music CD and the data product databases are music CD databases, and
22 the method further comprises at least one of the steps of
23 reading and storing in the music CD information database any of track information,
24 title, and artist from the CD that is not already stored in the music CD database,
25 prompting the owner to scan cover art of the music CD and storing cover art thus
26 scanned into the music CD information database, if the cover art is not already
27 present in the music CD database,

28 prompting the owner to scan lyrics of the music CD and storing lyrics thus scanned into
29 the music CD information database, if the lyrics are not already present in the
30 music CD database, and

1 prompting the owner to scan liner notes of the music CD and storing liner notes thus
2 scanned into the music CD information database, if the liner notes are not already
3 present in the music CD database.

4 99. The method of Claim 91, wherein:

5 the data product is a music CD, and data product information database is a music CD
6 information database; and

7 the method further comprises the steps of analyzing music data recorded on tracks of the
8 music CD to generate unique track identification data therefor and storing the track
9 identification information in the music CD information database, if the track
10 identification information is not already present in the music CD information database.

11 100. The method of Claim 91, wherein the owner and the buyer may access the databases online.

12 101. A system for evaluation and sale of a pre-owned recorded data product by an owner of the
13 data product to a buyer, the system:

14 comprises at least one of

15 a data product information database containing data product information,
16 a data product inventory data base containing inventory information,
17 a data product order database containing order information, and
18 a data product sales database containing sales information;

19 and further comprises

20 a readout device adapted for reading a data set recorded on the data product, and
21 a programmed processor operatively linked to the databases and the readout device,

22 wherein the processor is programmed for:

23 reading data from a data product offered by an owner of the data product;
24 comparing data read from the data product with data in the data product information
25 database;

26 identifying the data product, if the data product is identified as being listed in the data
27 product information database;

28 quantitatively evaluating the integrity of the data set recorded on the data product and
29 computing a data integrity rating for the data product;

30 determining a sale price for the data product to be offered by the owner to the buyer, the
31 purchase price being determined based on at least one of the data integrity rating for the

1 data product, inventory information, order information, and previous purchase and re-
2 sale information;
3 updating inventory information in response to an offer to sell the data product by the owner;
4 and
5 updating at least one of inventory information, order information, and sales information in
6 response to sale of the data product by the owner to the buyer.

7 102. The system of Claim 101, wherein the data product comprises a CD.

8 103. The system of Claim 101, wherein the data product comprises a DVD.

9 104. The system of Claim 101, wherein the evaluating step:

10 comprises at least two of the steps of

11 enumerating data subsets that are unreadable,

12 enumerating data subsets that are erroneously read and uncorrected, and

13 enumerating data subsets that are initially erroneously read and subsequently corrected;

14 and

15 further comprises the step of computing a data integrity rating for the data set using at least

16 one of enumerations of the unreadable data subsets, the erroneously-read-and-

17 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

18 105. The system of Claim 101, wherein the data product includes error correction codes, and the
19 evaluating step comprises the steps of:

20 enumerating data subsets that are initially erroneously read and subsequently corrected; and

21 computing a data integrity rating for the data set using enumeration of erroneously-read-
22 and-corrected data subsets.

23 106. The system of Claim 101, wherein the data product includes error correction codes, and the
24 evaluating step comprises the steps of:

25 enumerating data subsets that are initially erroneously read and subsequently corrected, and

26 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and

27 computing a data integrity rating for the data set using at least one of enumeration of the
28 erroneously-read-and-correct data subsets and the over-sampled rating.

29 107. The system of Claim 101, wherein the processor is further programmed for prompting a user
30 to enter data product information for the data product into the data product information

1 database, if the data product is not identified as being listed in the product information
2 database.

3 108. The system of Claim 101, wherein:

4 the data product is a music CD and the data product databases are music CD databases, and
5 the processor is further programmed for
6 reading and storing in the music CD information database any of track information,
7 title, and artist from the CD that is not already stored in the music CD database,
8 prompting the owner to scan cover art of the music CD and storing cover art thus
9 scanned into the music CD information database, if the cover art is not already
10 present in the music CD database,
11 prompting the owner to scan lyrics of the music CD and storing lyrics thus scanned into
12 the music CD information database, if the lyrics are not already present in the
13 music CD database, and
14 prompting the owner to scan liner notes of the music CD and storing liner notes thus
15 scanned into the music CD information database, if the liner notes are not already
16 present in the music CD database.

17 109. The system of Claim 101, wherein:

18 the data product is a music CD, and data product information database is a music CD
19 information database; and
20 the processor is further programmed for analyzing music data recorded on tracks of the
21 music CD to generate unique track identification data therefor and storing the track
22 identification information in the music CD information database, if the track
23 identification information is not already present in the music CD information database.

24 110. The system of Claim 101, wherein the owner and the buyer may access the databases online.

25 111. A method for generating a data product information database, comprising the steps of:

26 reading data from a data product owned by an owner of the data product;
27 comparing data read from the data product with data in a data product information database;
28 identifying the data product, if the data product is identified as being listed in the data
29 product information database;
30 quantitatively evaluating the integrity of a data set recorded on the data product and
31 computing a data integrity rating for the data product;

1 providing the data integrity rating to the owner; and
2 storing additional data product information read from the data product
3 information database.

4 112. The method of Claim 111, wherein the data product comprises a CD.

5 113. The method of Claim 111, wherein the data product comprises a DVD.

6 114. The method of Claim 111, wherein the evaluating step:

7 comprises at least two of the steps of

8 enumerating data subsets that are unreadable,

9 enumerating data subsets that are erroneously read and uncorrected, and

10 enumerating data subsets that are initially erroneously read and subsequently corrected;

11 and

12 further comprises the step of computing a data integrity rating for the data set using at least
13 one of enumerations of the unreadable data subsets, the erroneously-read-and-
14 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

15 115. The method of Claim 111, wherein the data product includes error correction codes, and the
16 evaluating step comprises the steps of:

17 enumerating data subsets that are initially erroneously read and subsequently corrected; and
18 computing a data integrity rating for the data set using enumeration of erroneously-read-
19 and-corrected data subsets.

20 116. The method of Claim 111, wherein the data product includes error correction codes, and the
21 evaluating step comprises the steps of:

22 enumerating data subsets that are initially erroneously read and subsequently corrected, and
23 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
24 computing a data integrity rating for the data set using at least one of enumeration of the
25 erroneously-read-and-correct data subsets and the over-sampled rating.

26 117. The method of Claim 111, further comprising the step of prompting the owner to enter data
27 product information for the data product into the data product information database, if the
28 data product is not identified as being listed in the product information database.

29 118. The method of Claim 111, wherein:

30 the data product is a music CD and the data product databases are music CD databases, and
31 the method further comprises at least one of the steps of

1 reading and storing in the music CD information database any of track information,
2 title, and artist from the CD that is not already stored in the music CD database,
3 prompting the owner to scan cover art of the music CD and storing cover art thus
4 scanned into the music CD information database, if the cover art is not already
5 present in the music CD database,
6 prompting the owner to scan lyrics of the music CD and storing lyrics thus scanned into
7 the music CD information database, if the lyrics are not already present in the
8 music CD database, and
9 prompting the owner to scan liner notes of the music CD and storing liner notes thus
10 scanned into the music CD information database, if the liner notes are not already
11 present in the music CD database.

12 119. The method of Claim 111, wherein:

13 the data product is a music CD, and the data product information database is a music CD
14 information database; and
15 the method further comprises the steps of analyzing music data recorded on tracks of the
16 music CD to generate unique track identification data therefor and storing the track
17 identification information in the music CD information database, if the track
18 identification information is not already present in the music CD information database.

19 120. The method of Claim 111, wherein the data product information database is accessed online.

20 121. The method of Claim 120, wherein:

21 a readout device for evaluating the integrity of the data set operatively linked online to the
22 data product information database; and
23 the additional data product information is transmitted online from the readout device to the
24 data product information database.

25 122. A system for generating a data product information database, comprising:

26 a data product information database;
27 a readout device adapted for reading a data set recorded on the data product; and
28 a programmed processor operatively linked to the database and the readout device,
29 wherein the processor is programmed for:
30 reading data from a data product owned by an owner of the data product;
31 comparing data read from the data product with data in a data product information database;

1 identifying the data product, if the data product is identified as being listed in the data
2 product information database;
3 quantitatively evaluating the integrity of a data set recorded on the data product and
4 computing a data integrity rating for the data product;
5 providing the data integrity rating to the owner; and
6 storing additional data product information read from the data product in the data product
7 information database.

8 123. The system of Claim 122, wherein the data product comprises a CD.

9 124. The system of Claim 122, wherein the data product comprises a DVD.

10 125. The system of Claim 122, wherein the evaluating step:
11 comprises at least two of the steps of

12 enumerating data subsets that are unreadable,
13 enumerating data subsets that are erroneously read and uncorrected, and
14 enumerating data subsets that are initially erroneously read and subsequently corrected;
15 and

16 further comprises the step of computing a data integrity rating for the data set using at least
17 one of enumerations of the unreadable data subsets, the erroneously-read-and-
18 uncorrected data subsets, and the erroneously-read-and-corrected data subsets.

19 126. The system of Claim 122, wherein the data product includes error correction codes, and the
20 evaluating step comprises the steps of:

21 enumerating data subsets that are initially erroneously read and subsequently corrected; and
22 computing a data integrity rating for the data set using enumeration of erroneously-read-
23 and-corrected data subsets.

24 127. The system of Claim 122, wherein the data product includes error correction codes, and the
25 evaluating step comprises the steps of:

26 enumerating data subsets that are initially erroneously read and subsequently corrected, and
27 determining an over-sampled rating for the erroneously-read-and-corrected subsets; and
28 computing a data integrity rating for the data set using at least one of enumeration of the
29 erroneously-read-and-correct data subsets and the over-sampled rating.

30 128. The system of Claim 122, wherein the processor is further programmed for prompting the
31 owner to enter data product information for the data product into the data product

1 information database, if the data product is not identified as being listed in the product
2 information database.

3 129. The system of Claim 122, wherein:

4 the data product is a music CD and the data product databases are music CD databases, and
5 the processor is further programmed for
6 reading and storing in the music CD information database any of track information,
7 title, and artist from the CD that is not already stored in the music CD database,
8 prompting the owner to scan cover art of the music CD and storing cover art thus
9 scanned into the music CD information database, if the cover art is not already
10 present in the music CD database,
11 prompting the owner to scan lyrics of the music CD and storing lyrics thus scanned into
12 the music CD information database, if the lyrics are not already present in the
13 music CD database, and
14 prompting the owner to scan liner notes of the music CD and storing liner notes thus
15 scanned into the music CD information database, if the liner notes are not already
16 present in the music CD database.

17 130. The system of Claim 122, wherein:

18 the data product is a music CD, and the data product information database is a music CD
19 information database; and
20 the processor is further programmed for analyzing music data recorded on tracks of the
21 music CD to generate unique track identification data therefor and storing the track
22 identification information in the music CD information database, if the track
23 identification information is not already present in the music CD information database.

24 131. The system of Claim 122, wherein the data product information database is accessed online.

25 132. The system of Claim 131, wherein:

26 the readout device for evaluating the integrity of the data set operatively linked online to at
27 least one of the data product information database and the programmed processor; and
28 the additional data product information is transmitted online from the readout device to the
29 data product information database.

30